CLAIMS

1. Roller clamp for regulating the flow of a fluid through an elastically deformable tubing (T), comprising:
a generally channel-shaped body having two lateral walls and a bottom wall defining a clamping surface along at least part of which a longitudinal groove is formed having a bottom wall, lateral walls, an initial end and a terminal end and having a cross section decreasingly variable from said initial end towards said terminal end, and
a roller rotatably supported by said lateral walls of the body and longitudinally movable in a guided fashion in said body substantially parallel to said clamping surface for clamping the elastically deformable tubing inserted through the body between said bottom wall of said body and said roller, wherein said longitudinal groove is arranged asymmetrically with respect to said lateral walls of the body,
said lateral walls of said longitudinal groove being oblique diverging from said bottom wall of said groove, and said longitudinal groove connected to said clamping surface through curved edges having different curvature radii, the curvature radius of a curved surface arranged on a side of the longitudinal groove that is closest to a lateral wall of the lateral walls of the body being smaller than the curvature radius of a curved surface arranged on a second side of the longitudinal groove which is farthest from the other lateral wall of the body.

2. Roller clamp according to claim 1, wherein said clamping surface has ribs extending longitudinally beside said longitudinal groove.

3. Roller clamp according to claim 2, wherein said ribs are asymmetrical.

4. Roller clamp according to claim 1 wherein said initial

end of the longitudinal groove is formed with centering bevels for inserting the flexible tubing into the body of the clamp.

5. Roller clamp for regulating the flow of a fluid through an elastically deformable tubing (T), comprising:
a generally channel-shaped body having two lateral walls and a bottom wall defining a clamping surface along at least part of which a longitudinal groove is formed, the groove being substantially V-shaped and extending along a length of the clamping surface, and the groove having a bottom wall, lateral walls, an initial end and a terminal end and having a cross section decreasingly variable from said initial end towards said terminal end, and
a roller rotatably supported by said lateral walls of the body and longitudinally movable in a guided fashion in said body substantially parallel to said clamping surface for clamping the elastically deformable tubing inserted through the body between said bottom wall of said body and said roller, wherein said longitudinal groove is arranged asymmetrically with respect to said lateral walls of the body,
said lateral walls of said longitudinal groove being oblique diverging from said bottom wall of said groove, and said longitudinal groove connected to said clamping surface through curved edges having different curvature radii, the curvature radius of a curved surface arranged on a side of the longitudinal groove that is closest to a lateral wall of the lateral walls of the body being smaller than the curvature radius of a curved surface arranged on a second side of the longitudinal groove which is farthest from the other lateral wall of the body.

6. Roller clamp according to claim 5, wherein said clamping surface has ribs extending longitudinally beside said longitudinal groove.

7. Roller clamp according to claim 6, wherein said ribs are asymmetrical.

8. Roller clamp according to claim 5 wherein said initial end of the longitudinal groove is formed with centering bevels for inserting the flexible tubing into the body of the clamp.